Sunfish Science Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Energy Starter Pg\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How do **solar thermal panels** make electricity? **Draw a flow map.**
2. Coal is an example of which **type** of energy?
3. Chemical
4. Radiant
5. Motion
6. Thermal

3. Natural gas, coal, biomass and petroleum are all examples

a. Chemical energy

b. Kinetic energy

c. Radiant energy

d. Motion energy

4. Kinetic energy is:

a. The motion of waves, electrons, atoms, molecules and substances

b. Stored energy and the energy of position

c. Electromagnetic energy that travels in transverse waves

d. The movement of energy through substances in longitudinal waves.

5. Why is solar energy considered a renewable energy source?

a. You can get money back from the government if you put solar

panels on your house

b. Solar energy is cheaper than fossil fuels

c. The sun’s energy will not run out for billions of years

d. Solar energy can be used to recharge batteries

6. Photovoltaic cells convert sunlight into

a. Heat

b. Motion

c. Light

d. Electricity

7. Place the following events in sequence: a.) Uranium atoms spilt; b.) Steam powers turbines; c.) Fuel rods heat up; d.) Generators create electricity

1. A, B, C, D
2. B, A, C, D
3. A, C, D, B
4. A, C, B, D

8. What is Energy?

a. Anything that radiates light or heat

b. Anything that travels in the form of a wave

c. Any object in motion

d. Anything that has the ability to create change or do work

9.What is potential energy?

a. The motion of waves, electrons, atoms, molecules and substances

b. Stored energy and the energy of position

c. The energy that an object has due to its speed

d. The energy an object has due to its volume

10. Which object has the most potential energy?

1. A basketball resting on the ground
2. A basketball rolling down a hill
3. A basketball resting on top of a table
4. A basketball flying through a hoop

11. The amount of kinetic energy depends on its:

a. Density and speed

b. Volume and speed

c. Mass and volume

d. Mass and speed

12. Which of the following is NOT a way electricity can be made from biomass?

1. Bacterial Decay
2. Distillation
3. Fermentation
4. Burning biomass

13. Natural gas is formed from dead plant and animal matter?

a. True

b. False

14. Coal is a renewable resource because it only takes a few years to make it

a. True

b. False

15. Give one example of radiant energy